USER MANUAL

K64P36W3RGBAW

KANDOlite®

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Summarize

Thank you for purchasing our LED PAR lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage.

Products introduce

This led K64P60W3RGBAW light is uses aluminum shell, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It takes uses high power R,G,B,,W 4 kinds LED. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. International standard DMX 512 signal is requested.

Packing list

- K64P60W3RGBAW light 1PC
- DMX cable 1PC (Sold separately)
- The use manual
- Warranty Card

Safety Information

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

! Avoid direct eye exposure to the fixture when it is on;

Safety instruction

• Make sure the power supply voltages are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

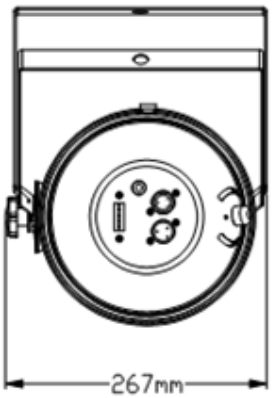
●before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

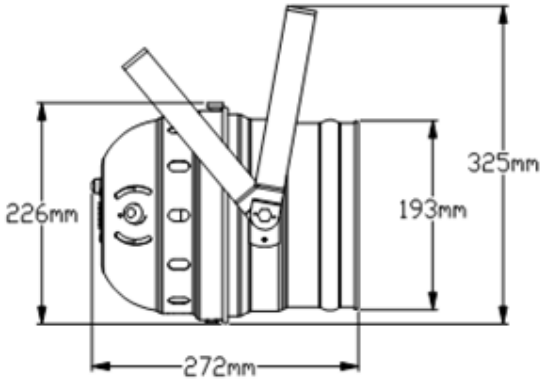
●This light is designed for indoor use, working temperature is lower than 40 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

Outside Size Picture





Main Function

- high quality LED: low consumption, brightness, stable capability and long life
- Each color of LED with 256 dimming, RGB each color has a good degree of saturation.
- Liner Dimming 0%-100%, function of strobe, eotic, gradual change and jumping change
- DMX512 Controller，4 button set DMX ID address with led display
- auto run /sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- lens degree: 15º、25º、45º optional
- DMX512 channels:3, 4, 5, 8, 9 channels

DMX Control Function

3CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	RGB mixing	tone
2CH	0-255	White 0——100%	color saturation
3CH	0-255	General dimming	purity

Remark：

At the mode, the chromacity stand for visible light, such as R,G,Y,C and so on. Color saturation stand for the rate of the main chromacity in this color, 100% saturation means purity. Purity value stands for the brightness of this color, when the purity reach 100%, the color is the brightest.

4CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	R 0-100%	
2CH	0-255	G 0-100%	
3CH	0-255	B 0-100%	
4CH	0-255	W 0-100%	

5CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	General dimming	
2CH	0-255	R 0-100%	
3CH	0-255	G 0-100%	
4CH	0-255	B 0-100%	
5CH	0-255	W 0-100%	

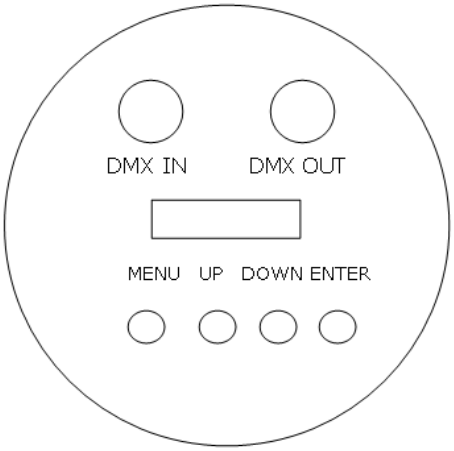
8CH

Channel	DMX Value	Control Function	Channel	priority
1CH	0-255	General dimming		1
2CH	0-255	R 0——100%		
3CH	0-255	G 0——100%		
4CH	0-255	B 0——100%		
5CH	0-255	W 0——100%		
6CH	0-14	dimmer	When 7CH above 31, this function is invalid	2
	15-255	Strobe speed		
7CH	0-31	invalid		3
	32-63	from dark to bright	You must use CH1、2、3、4, 5, other wise no light, from the 8CH start the speed adjustment	
	64-95	from bright to dark		
	96-127	from dark—bright—dark		
	128-164	gradual change	from the 8CH start the speed adjustment	
	165-191	dark-bright-dark auto run		
	192-223	color jumping		
	224-255	Sound activated	Not suitable for Waterproof light	
8CH	0-255	speed adjustment （7CH）	slow-fast	

9CH

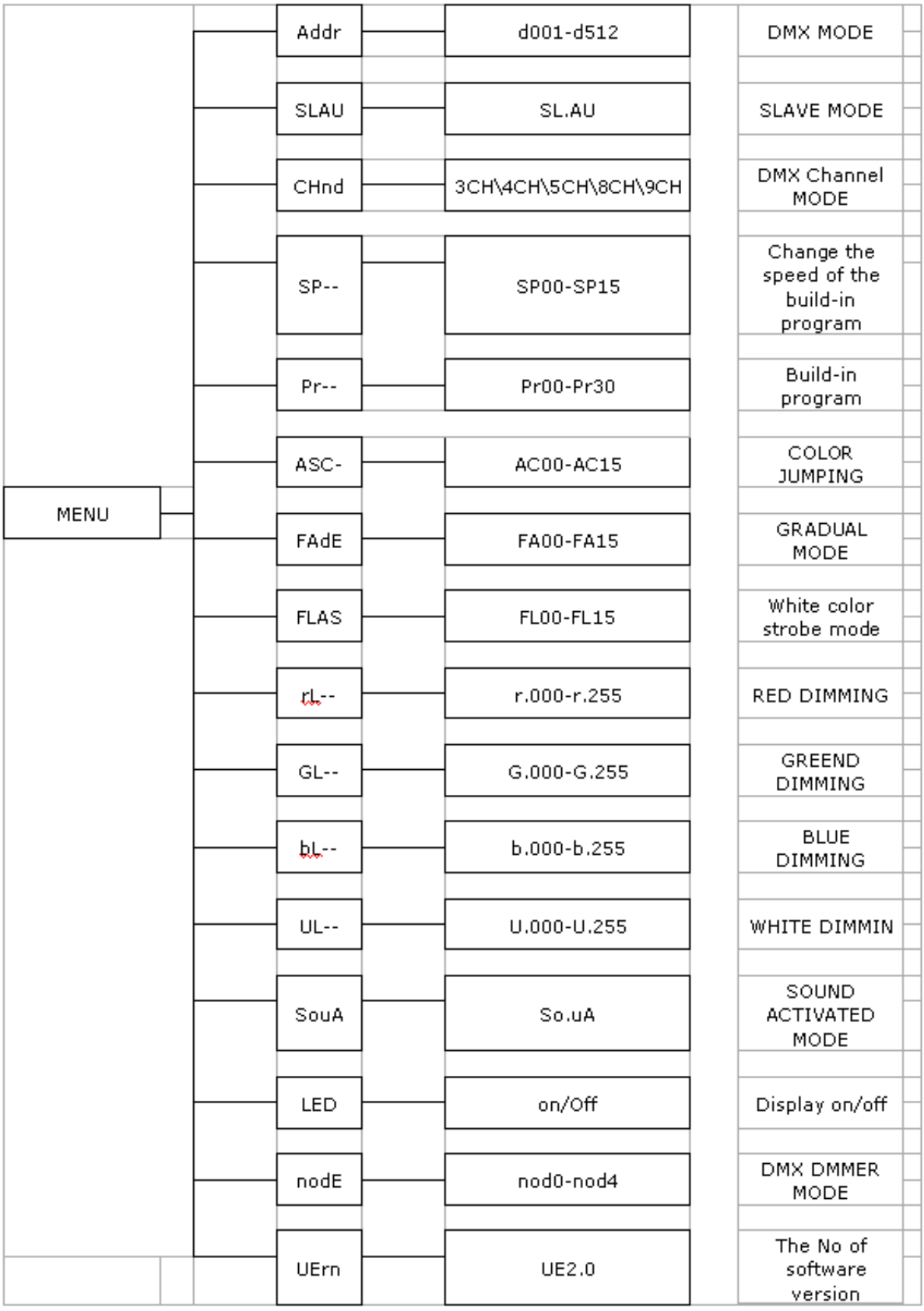
Channel	DMX Value	Control Function	Channel	priority
1CH	0-255	General dimming		1
2CH	0-255	R 0——100%		
3CH	0-255	G 0——100%		
4CH	0-255	B 0——100%		
5CH	0-255	W 0——100%		
6CH	0-14	dimmer	When 7CH above 31, this function is invalid	2
	15-255	Strobe speed		
7CH	0-31	invalid		3
	32-63	from dark to bright	You must use CH1、2、3、4，5, other wise no light, from the 8CH start the speed adjustment	
	64-95	from bright to dark		
	96-127	from dark—bright—dark		
	128-159	gradual change	from the 8CH start the speed adjustment	
	160-191	dark-bright-dark auto run		
	192-223	color jumping		
	224-255	Sound activated	Not suitable for Waterproof light	
8CH	0-255	speed adjustment（7CH）	slow-fast	
9CH	0-5 6-55 56-105 106-155 156-205 206-255	Press the display to set DIMMER0-4 DIMMER0 DIMMER1 DIMMER2 DIMMER3 DIMMER4		1

Display Operation



- MENU : access the menu or return to a previous menu option
- ENTER: select the current menu option
- UP: menu selection or parameter increments
- DOWN: menu selection or parameters decrease

Manual Instruction



Operating instruction

MENU（UP/DOWN）+ENTER+UP/DOWN）+ENTER

- Remark: Exp: Select the DMX mode, Here are the operation details:
- **Press the MENU,** go back to the initial setting
- **Press UP/DOWN, display "Addr"**
- **Press ENTER to change the content,** the display will glinting at this moment
- **Press UP/DOWN** to change the address code to select A001
- Press ENTER to select and store the current menu options. DMX mode will be
- stored automatically and the screen will stop glinting.
- Exp：Select DMX Channels optional mode, the operation is as below:
- **Press MENU，** go back to the initial setting
- **Press UP/DOWN，display "CHnd"**
- **Press ENTER to change the content,** the display will glinting at this moment
- **Press UP/DOWN to select the DMX channels that you need, 3CH、4CH、5CH and so on**
- **Press ENTER** select and store the current menu options. DMX mode will be
- stored automatically and the screen will stop glinting.
- **Exp：Close the display, the operation is as below:**
- **Press MENU，** go back to the initial setting
- **Press UP/DOWN，display "LED"**
- **Press ENTER to change the content,** the display will glinting at this moment
- **Press UP/DOWN to select "OFF"**
- **Press ENTER to confirm, the select the working mode that you need. When stop pressing, the display will shut after a while. When the**

display is closed, press any button to activate the display. If setting the led to "off", when stop pressing, the display will shut after a while.

- **2**、Details of program built inside（Pr- -）
- Press MENU, go back to the initial setting
- Press UP / DOWN until Pr--
- Press ENTER to choose, the display will glinting at this moment
- Press UP / DOWN to change the address code to select pr00
- Press ENTER to select and store the current menu options. DMX mode will be
- stored automatically and the screen will stop glinting.

Remark:

- **Pr14--- Pr30** Can change the content Of SP，correct the speed of jumping change , SP00 is the fastest，SP15 is the slowest
- **Pr00-Pr13**：R,G,B.W single color or multi-colors lighting
- **Pr14-Pr28**：correspond with the Pr00-Pr13 add the strobe function.
- **Pr29**：4 colors jumping.
- **Pr30**：there are kinds of colors jumping

Operating Control Instruction

Master/Slave

Master：The master should set as built-in program and shows" P - X – X" send out synchronization signals. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters should increase a signal amplifier.

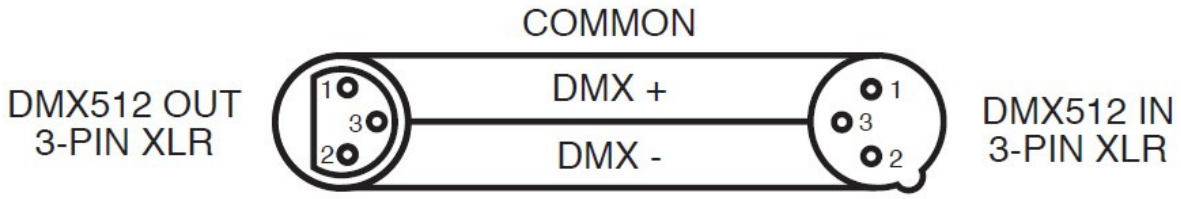
Slave：It must be in the SLAV mode and the address code should be A001 to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

XLR cable connecting

XRL cable：

The stand connection way of the XRL is: one end connects to the male plug, and the other connects to the female.

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)



Noted：In order to avoid failures and interference signal transmission we connect a resistance120Ω 1(/4W)at the end of the DMX connecting as below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

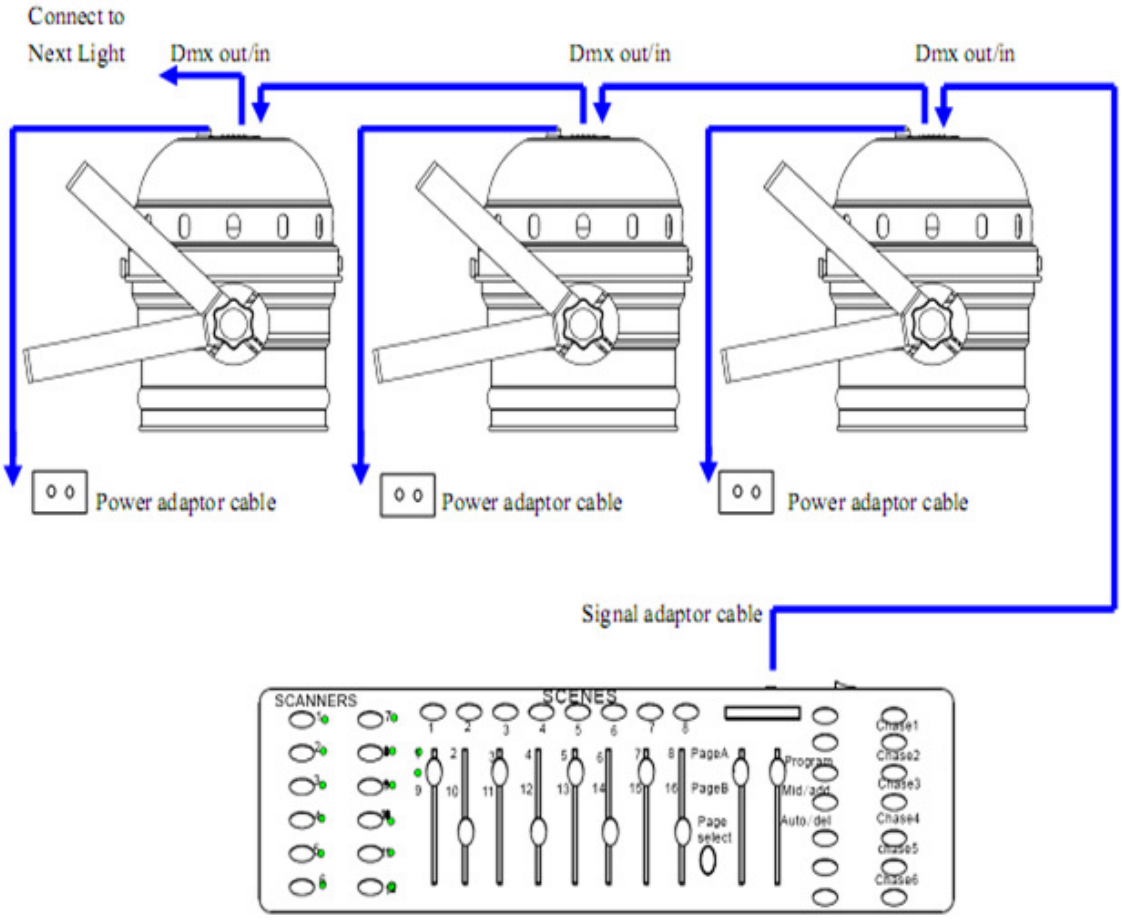
The Conversion between 3pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Connecting picture

Cable connecting picture：



Problem Analyze

Problem	Checking way
Can not turn on the light	◆ Check the power source plug is in normal or not ◆ Check the switch of the lights is off or on ◆ Check it the fuse if in normal
DMX can not control it	◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not ◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode（A001）
Display not bright	◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
LED not light	◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
	◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose

Some of the LED not light	◆ Use the multimeter to check if the led is bright or not, of not, please change the led ◆ check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted: only professional persons can do as above !

Technical Specification

- Input voltage：**AC 100V-264V/47-63HZ**
- Output voltage：**DC24V**
- Consume：**160W**
- Lamp Type：**LED(3W)-3535 package**
- Lamp Spec：**R(16PCS)，G(16PCS)， B(16PCS)，W（12PCS）**
- Control Signal：DMX512, sound activated, auto run
- Control mode：stand alone/ DMX/ master and slaver
- Channel:： **3CH、4CH、5CH、8CH、9CH**
- Color effect：**R、G、B、W** mixing
- Function Effect：dimmer, strobe, eotic, gradual change
- Cooling mode：Natural Convection
- Beam Angle：**15º、25º、45º Optional**
- Anti-electricity intension：**1.5KV**
- Insulation Resistance：＞2 **MΩ**
- Size:：**220*270*350mm**
- Net Weight **3.5 Kg**

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